

Basic Patent (Number, Kind, Date): EP 723072 A1 19960724

Patent Family:

Patent Number	Kind	Date	Application Number	Kind	Date
EP 723072	A1	19960724	EP 96100543	A	19960116 (Basic)
EP 844378	A2	19980527	EP 98100995	Α	19960116
EP 1050673	A2	20001108	EP 2000116245	Α	19960116
EP 1050674	A2	20001108	EP 2000116246	Α	19960116
EP 844378	A3	19990901	EP 98100995	Α	19960116
EP 1050673	A3	20001115	EP 2000116245	Α	19960116
EP 1050674	A3	20001115	EP 2000116246	Α	19960116
JP 8254129	A2	19961001	JP 964529	Α	19960116
<u>US 5868114</u>	A	19990209	US 969708	Α	19971124

Priority Data:

Patent Number	Kind	Date
JP 954673	Α	19950117
Љ 956189	A	19950119
EP 96100543	A3	19960116
JP 964529	A	19960116
US 969708	A	19971124
US 583794	B1	19960116

PATENT FAMILY:

European Patent Office (EP)

Patent (Number, Kind, Date): EP 723072 A1 19960724

AIR FLOW RATE CONTROL APPARATUS (English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number, Kind, Date): JP 954673 A 19950117; JP 956189 A 19950119

Applic (Number, Kind, Date): EP 96100543 A 19960116

Designated States: (National) DE; FR; GB; IT

IPC: * F02D-011/10

Derwent WPI Acc No: * G 96-335519; G 98-274236; G 96-335519

Language of Document: English

Patent (Number, Kind, Date): EP 844378 A2 19980527

AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number, Kind, Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A 19950119

Applic (Number, Kind, Date): EP 98100995 A 19960116

Designated States: (National) DE; FR; GB; IT

IPC: * F02D-011/10

Derwent WPI Acc No: * G 96-335519; G 98-274236; G 98-274236

Language of Document: English

Patent (Number, Kind, Date): EP 1050673 A2 20001108

AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number, Kind, Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A 19950119

Applic (Number, Kind, Date): EP 2000116245 A 19960116

Designated States: (National) DE; FR; GB; IT

IPC: * F02D-011/00; F02D-009/08 Derwent WPI Acc No: ; G 2001-051771

Language of Document: English

Patent (Number, Kind, Date): EP 1050674 A2 20001108

AIR FLOW RATE CONTROL APPARATUS (English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMAKAZUO (JP)

Priority (Number, Kind, Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A 19950119

Applic (Number, Kind, Date): EP 2000116246 A 19960116

Designated States: (National) DE; FR; GB; IT

IPC: * F02D-011/00; F02D-009/08 Derwent WPI Acc No: ; G 2001-051772

Language of Document: English

Patent (Number, Kind, Date): EP 844378 A3 19990901

AIR FLOW RATE CONTROL APPARATUS (English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number, Kind, Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A 19950119

Applic (Number, Kind, Date): EP 98100995 A 19960116

DesignatedStates: (National) DE; FR; GB; IT

IPC: * F02D-011/10

Derwent WPI Acc No: * G 96-335519; G 98-274236

Language of Document: English

Patent (Number, Kind, Date): EP 1050673 A3 20001115

AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number, Kind, Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A

19950119

Applic (Number, Kind, Date): EP 2000116245 A 19960116

Designated States: (National) DE; FR; GB; IT

IPC: * F02D-011/10

Derwent WPI Acc No: * G 96-335519; G 98-274236

Language of Document: English

Patent (Number, Kind, Date): EP 1050674 A3 20001115

AIR FLOW RATE CONTROL APPARATUS (English; French; German)
Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number, Kind, Date): EP 96100543 A3 19960116; JP 954673 A 19950117; JP 956189 A

19950119

Applic (Number, Kind, Date): EP 2000116246 A 19960116

Designated States: (National) DE; FR; GB; IT

IPC: * F02D-011/10

Derwent WPI Acc No: * G 96-335519; G 98-274236

Language of Document: English

European Patent Office (EP) - Legal Status

Number	Type	Date	Code	Text	
EP 723072	P	19950117	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
				JP 954673 A 19950117	
EP 723072	P	19950119	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
				Љ956189 A 19950119	
EP 723072	P	19960116	EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
				EP 96100543 A 19960116	
EP 723072	P	19960724	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:	(IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)
				DE FR GB IT	
EP 723072	P	19960724	EP A1	PUBLICATION OF APPLICATION	(VEROEFFENTLICHUNG DER ANMELDUNG MIT

			WITH SEARCH REPORT	RECHERCHENBERICHT)
EP 723072	P	19960724 EP 17	P REQUEST FOR EXAMINATION FILED	(PRUEFUNGSANTRAG GESTELLT)
			960116	
EP 723072	P	1997091 7 EP 17Q	FIRST EXAMINATION REPORT	(ERSTER PRUEFUNGSBESCHEID)
			970801	
EP 723072	P	19980527 EP AF	I DIVISIONAL APPLICATION (ART. 76) IN:	(TEILANMELDUNG (ART. 76) IN:)
			EP 844378 P	
EP 723072	P	20000927 EP RAHF	DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION)	(TEILANMELDUNG (ART. 76) IN: (KORR.))
			844378	
			EP 98100995 A 19980121	
EP 723072	P	20000927 EP RAHF	DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION)	(TEILANMELDUNG (ART. 76) IN: (KORR.))
			EP 2000116245 A 20000808	
EP 723072	P	20000927 EP RAHF	DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION)	(TEILANMELDUNG (ART. 76) IN: (KORR.))
			EP 2000116246 A 20000808	
EP 723072	P	20001108 EP AF	I DIVISIONAL APPLICATION (ART. 76) IN:	(TEILANMELDUNG (ART. 76) IN:)
			EP 1050673 P	
EP 723072	P	20001108 EP AF	APPLICATION (ART. 76) IN:	(TEILANMELDUNG (ART. 76) IN:)
	_		EP 1050674 P	
EP 844378	P	19950117 EP AA	A PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))

			JP 954673 A 19950117	
EP 844378	P	19950119 EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
			Л Р 956189 A 19950119	
EP 844378	P	19960116 EP AA	DIVIDED OUT OF	(AUSSCHEIDUNG AUS)
			EP 96100543 A3 19960116	
EP 844378	P	19960116 EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
			EP 98100995 A 19960116	
EP 844378	P	19980527 EP AC	DIVISIONAL APPLICATION (ART. 76) OF:	(TEILANMELDUNG (ART. 76) AUS:)
			EP 723072 P	
EP 844378	P	19980527 EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:	(IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
			DE FR GB IT	
EP 844378	P	19980527 EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT	(VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 844378	P	19980527 EP 17I	P REQUEST FOR EXAMINATION FILED	(PRUEFUNGSANTRAGGESTELLT)
			980121	
EP 844378	P	19990901 EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:	(IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
			DE FR GB IT	•
EP 844378	P	19990901 EP A3	SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)	(GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 844378	P	20010117 EP 17Q	FIRST EXAMINATION	(ERSTER PRUEFUNGSBESCHEID)

REPORT

			ICEI OICI	·
			20001130	
EP 1050673	P	19950117 EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
			JP 954673 A 19950117	
EP 1050673	P	19950119 EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
			JP 956189 A 19950119	
EP 1050673	P ,	19960116 EP AA	DIVIDED OUT OF	(AUSSCHEIDUNG AUS)
		·	EP 96100543 A3 19960116	
EP 1050673	P	19960116 EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
			EP 2000116245 A 19960116	
EP 1050673	P	20001108 EP AC	DIVISIONAL APPLICATION (ART. 76) OF:	(TEILANMELDUNG (ART. 76) AUS:)
,			EP 723072 P	
EP 1050673	P	20001108 EP AK	DESIGNATED CONTRACTING STATESIN AN APPLICATION WITHOUT SEARCH REPORT:	(IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
			DE FR GB IT	•
EP 1050673	P	20001108 EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT	(VEROEFFENTLICHUNG DERANMELDUNG OHNE RECHERCHENBERICHT)
EP 1050673	P	20001108 EP 17P	REQUEST FOR EXAMINATION FILED	(PRUEFUNGSANTRAG GESTELLT)
			20000808	
EP 1050673	P	20001115 EP AK	CONTRACTING STATES IN A SEARCH REPORT:	(IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
			DE FR GB IT	
EP	P	20001115 EP A3	SEPARATE	(GESONDERTE

					_
1050673			•	PUBLICATION OF THE SEARCH REPORT (ART. 93)	VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 1050673	P	20001115	EP RIC1	CLASSIFICATION (CORRECTION)	(KLASSIFIKATION (KORR.))
				7F 02D 11/10 A	
EP 1050673	P	20010221	EP RIN1	INVENTOR (CORRECTION)	(ERFINDER (KORR.))
ı				KAMIMURA, YASUHIRO; SASAKI, YASUSHI; AOKI, SADAYUKI; NAGAYAMA, KAZUO	
EP 1050674	P	19950117	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
				JP 954673 A 19950117	
EP 1050674	P	19950119	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
				JP 956189 A 19950119	
EP 1050674	P	19960116	EP AA	DIVIDED OUT OF	(AUSSCHEIDUNG AUS)
				EP 96100543 A3 19960116	
EP 1050674	P	19960116	EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
				EP 2000116246 A 19960116	
EP 1050674	P	20001108	EP AC	DIVISIONAL APPLICATION (ART. 76) OF:	(TEILANMELDUNG (ART. 76) AUS:)
				EP 723072 P	
EP 1050674	P	20001108	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:	(IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
				DE FR GB IT	
EP 1050674	P	20001108	EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH	(VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)

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EP 1050674	P	20001108 EP 17F	REQUEST FOR EXAMINATION FILED	(PRUEFUNGSANTRAG GESTELLT)
		•	20000808	
EP 1050674	P	20001115 EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:	(IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
			DE FR GB IT	
EP 1050674	P	20001115 EP A3	SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)	(GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 1050674	P	20001115 EP RIC1	CLASSIFICATION (CORRECTION)	(KLASSIFIKATION (KORR.))
			7F 02D 11/10 A	
EP 1050674	P	20010228 EP RIN1	INVENTOR (CORRECTION)	(ERFINDER (KORR.))
			KAMIMURA, YASUHIRO; SASAKI, YASUSHI; AOKI, SADAYUKI; NAGAYAMA, KAZUO	

Japan (JP)

Patent (Number, Kind, Date): JP 8254129 A2 19961001

THROTTLE VALVE CONTROLLER OF INTERNAL COMBUSTION ENGINE (English)

Patent Assignee: HITACHI LTD; HITACHI KAA ENG KK

Author (Inventor): KAMIMURA YASUHIRO; SASAKI YASUSHI; AOKI SADAYUKI;

NAGAYAMA KAZUO

Priority (Number, Kind, Date): JP 964529 A 19960116; JP 954673 A 19950117; JP 956189 A 19950119

Applic (Number, Kind, Date): JP 964529 A 19960116 IPC: * F02D-009/02; F02D-009/00; F02D-035/00

Derwent WPI Acc No: * G 96-335519 Language of Document: Japanese

United States of America (US)

Patent (Number, Kind, Date): US 5868114 A 19990209 AIR FLOW RATE CONTROL APPARATUS (English)

Patent Assignee: HITACHI LTD (JP); HITACHI CAR ENG CO LTD (JP)

Author (Inventor): KAMIMURA YASUHIRO (JP); SASAKI YASUSHI (JP); AOKI

SADAYUKI (JP); NAGAYAMA KAZUO (JP)

Priority (Number, Kind, Date): US 969708 A 19971124; JP 954673 A 19950117; JP 956189 A

19950119; US 583794 B1 19960116

Applic (Number, Kind, Date): US 969708 A 19971124

National Class: * 123399000; 251129110; 073117300; 073118200

IPC: * F02D-011/10; F16K-031/04

Derwent WPI Acc No: * G 96-335519; G 98-274236

Language of Document: English

United States of America (US) - Legal Status

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Number	Type	Date	Code	Text	
US 5868114	P	19950117	US AA	PRIORITY (PATENT)	
				JP 954673 A 19950117	
US 5868114	P	19950119	US AA	PRIORITY (PATENT)	
				JP 956189 A 19950119	
US 5868114	P	19960116	US AA	PRIORITY	
				US 583794 B1 19960116	
US 5868114	P	19971124	US AE	APPLICATION DATA (PATENT)	(APPL. DATA (PATENT))
				US 969708 A 19971124	
US 5868114	P	19990209	US A	PATENT	

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